

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:)	
)	
HOLZLEITNER)	
)	Group Art Unit: Unknown
Serial No.: NEW)	
)	Examiner: Unknown
Filing Date: October 23, 2003)	
)	
Title: SLIP CLUTCH FOR STARTER)	
DRIVE)	

* * * * *

October 23, 2003

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313

Sir:

Attached is (1) PTO-1449 sheet listing three (3) U.S. patents, seven (7) foreign references, and one (1) non-patent literature document. All of the foreign references, except the European application, are not written in English. The non-patent literature document is written in both German and English and, therefore, does not require a statement of relevance. While the undersigned does not read or understand Japanese or German, the undersigned provides the following statement of relevance based upon the English abstracts as follows:

- (1) JP 61-282644 describes a torque limiter where the torque capacity may be increased, without enlarging the size of a torque limiter, by tapering the friction contact surface of the torque limiter, thereby allowing the maximum torque capacity to be increased with a small contact area.
- (2) JP 61-283762 describes a starter for motorcycle or the like where the generation of engagement noise of a pinion gear is eliminated by always engaging the pinion gear of a starter motor with a gear transmission mechanism and installing a torque limiter onto any gear in the transmission mechanism.
- (3) DE 37 11 430 A1 illustrates a recoilless hand cranking mechanism (10) for internal combustion engines. The hand cranking mechanism (10) has a starting shaft (20) which can be coupled to a shaft (14) of the internal combustion engine by axial displacement. A crank arm (28) is arranged on the outer surface of the hand cranking mechanism (10) and a deflecting jaw clutch (18, 22) is arranged on the inner surface.

The jaw clutch (18, 22) causes the rotational locking connection of the starting shaft (20) to the engine shaft (14) to be started. Between the starting shaft and the casing (12) of the internal combustion engine, there is provided a braking freewheel (52), which releases the starting shaft when it rotates in the starting direction but locks this shaft when it rotates in the opposite direction. The starting shaft (20) consists of two shaft sections (20a, 20b), which are mounted so as to be rotatable relative to one another and on which there are provided, on the one hand, the crank arm (28) and, on the other hand, the deflecting jaw clutch (18, 22). In addition, the shaft sections (20a, 20b) are frictionally connected via a torque adjustable-slipping clutch (30).

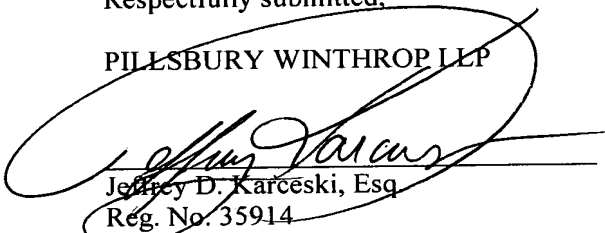
- (4) JP 63-5160 describes an engine starter device which has a sufficient shock absorbing effect and is very durable. The device includes a friction clutch and an axial directional shock absorbing mechanism on a sleeve fitted to a driving shaft through a helical spline.
- (5) JP 7-83147 describes an engine starting device where the number of parts, weight, and burden applied on a crank shaft bearing are reduced.
- (6) JP 4-159455 describes a multi-disk friction-type torque limiter in which the structure is simplified to attain a small size and a light weight. This is accomplished by providing a constitution such that gear teeth are provided in a peripheral part of a drive plate and meshed with a pinion gear of a starter motor to directly drive the drive plate.

This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed PTO-1449 Form, page 1, with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Respectfully submitted,

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FORM PTO-1449 (modified)
 To: U.S. Department of Commerce
 (PW FORM PAT-1449)
 Patent and Trademark Office

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: HOLZLEITNER

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Examiner: Unknown

Group Art Unit: Unknown

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	6,239,503 B1	05/2001	Ikedo et al.		
	BR	4,192,195	03/1980	Kazino et al.		
	CR	5,894,756	04/1999	Uehara et al.		
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					
	NR					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
	OR	61-282644	12/1986	Japan	Tsumiyama et al.	x		
	PR	61-283762	12/1986	Japan	Tsumiyama et al.	x		
	QR	37 11 430 A1	10/1988	Germany	Kaercher	x		
	RR	63-5160	01/1988	Japan	Kato et al.	x		
	SR	7-83147	03/1995	Japan	Kurata	x		
	TR	4-159455	06/1992	Japan	Nishikawa	x		
	UR	1 024 283 A2	08/2000	Europe	Berghi			
	VR							
	WR							
	XR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

YR	Bombardier-Rotax Parts Catalog for a Bombardier-Rotax Type 914 F engine (pages 48-53), 10/1996.			
ZR				
AAR				
BBR				
CCR				
DDR				

Examiner

Date Considered: